

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020619\
 Data File : VN053629.D
 Acq On : 6 Feb 2019 12:42
 Operator : JC/SP
 Sample : PB116860ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#02

Quant Time: Feb 07 03:41:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	778833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1256614	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1134311	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	465462	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	398111	50.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.90%	
35) Dibromofluoromethane	7.59	113	399898	50.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.72%	
50) Toluene-d8	10.09	98	1512319	50.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.46%	
62) 4-Bromofluorobenzene	12.40	95	494079	49.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.38%	

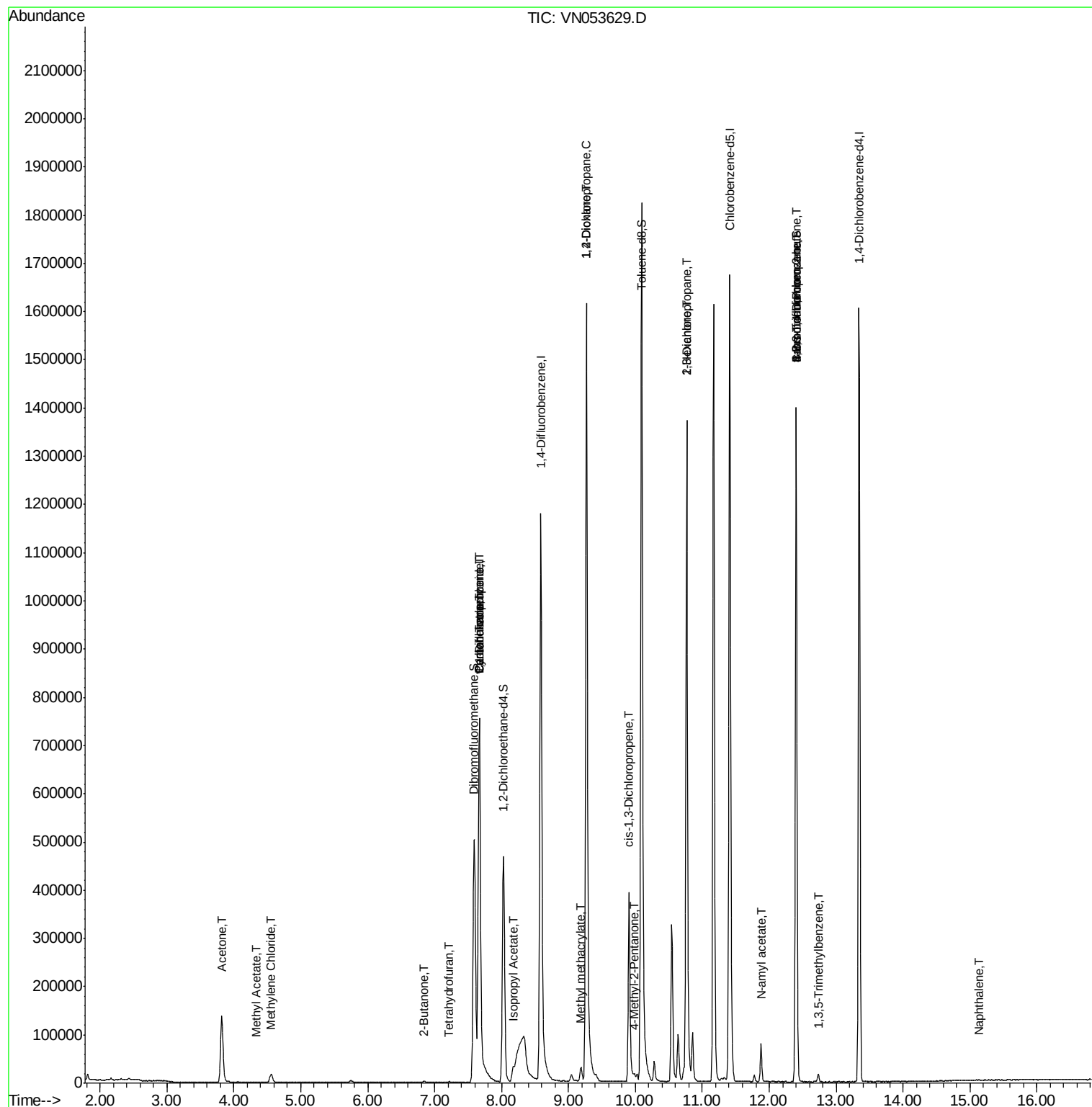
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	232147	115.836	ug/l	95
18) Methyl Acetate	4.34	43	2330	0.393	ug/l #	72
20) Methylene Chloride	4.55	84	13424	1.597	ug/l	98
25) 2-Butanone	6.84	43	2231	0.781	ug/l	98
29) Tetrahydrofuran	7.22	42	1577	0.859	ug/l #	58
31) Cyclohexane	7.67	56	11578	0.709	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46340	4.091	ug/l #	49
38) Carbon Tetrachloride	7.67	117	60475	5.300	ug/l #	16
43) Isopropyl Acetate	8.17	43	33888	2.774	ug/l #	84
45) 1,2-Dichloropropane	9.27	63	2330	0.261	ug/l #	43
48) Methyl methacrylate	9.18	41	9859	1.690	ug/l #	12
49) 1,4-Dioxane	9.27	88	195	41.315	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7977	1.329	ug/l #	75
54) cis-1,3-Dichloropropene	9.90	75	84327	6.346	ug/l #	62
57) 1,3-Dichloropropane	10.77	76	15392	1.206	ug/l #	43
59) 2-Hexanone	10.77	43	210430	51.628	ug/l #	50
71) Bromoform	12.40	173	2612	0.453	ug/l #	1
74) N-amyl acetate	11.88	43	23273	2.958	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	227421	38.039	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8548	0.315	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	227421	106.964	ug/l #	15
95) Naphthalene	15.14	128	786	1.773	ug/l #	69

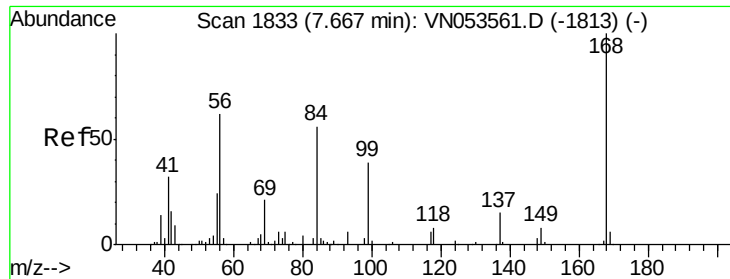
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN020619\
Data File : VN053629.D
Acq On : 6 Feb 2019 12:42
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Sample : PB116860ZHE#02
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Instrument :
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Quant Time: Feb 07 03:41:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053629.D

Acq: 6 Feb 2019 12:42

Instrument :

MSVOA_N

ClientSampleId :

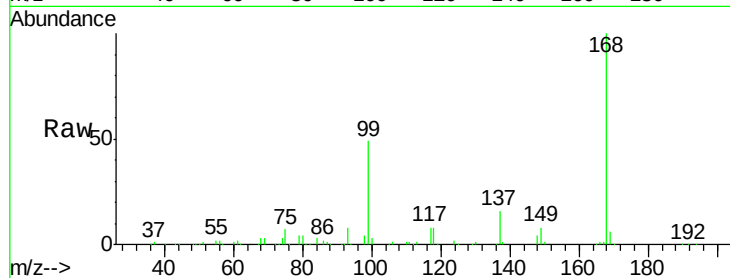
PB116860ZHE#02

Tot Ion:168 Resp: 778833

Ion Ratio Lower Upper

168 100

99 48.8 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053629.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053629.D (-1740) (-)

7.67

300000

250000

200000

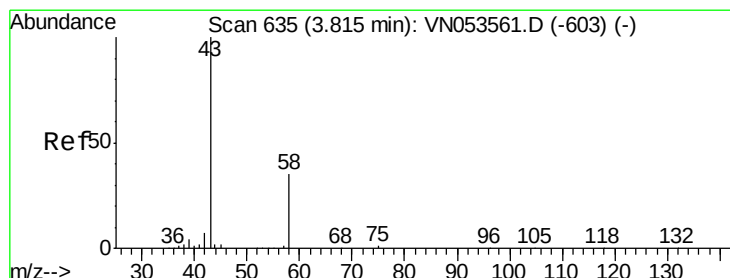
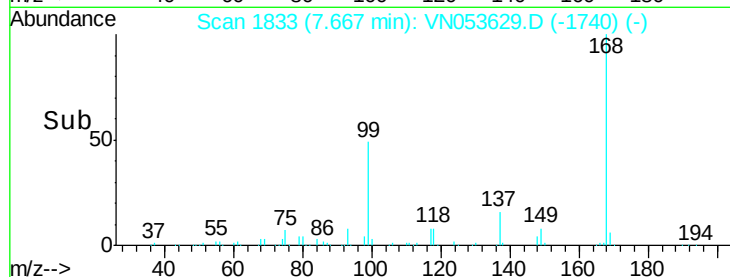
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 115.836 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053629.D

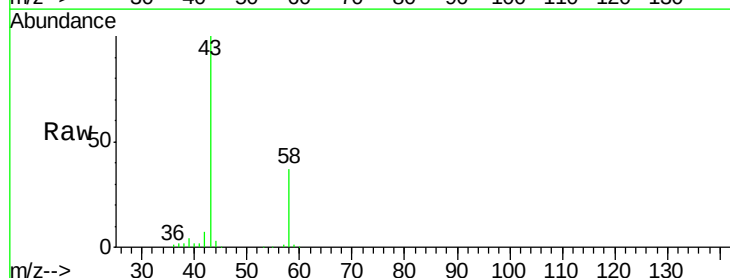
Acq: 6 Feb 2019 12:42

Tgt Ion: 43 Resp: 232147

Ion Ratio Lower Upper

43 100

58 36.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053629.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053629.D (-542) (-)

3.82

100000

80000

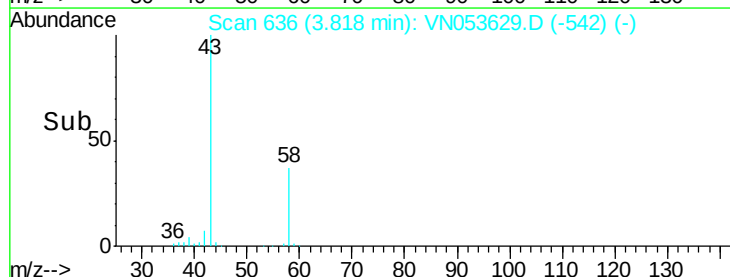
60000

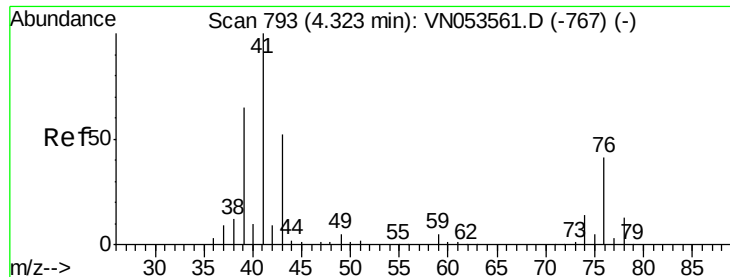
40000

20000

0

Time-->

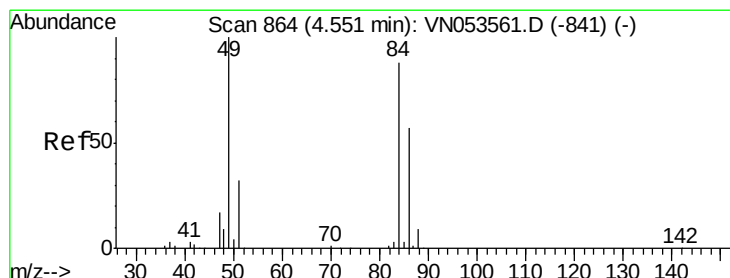
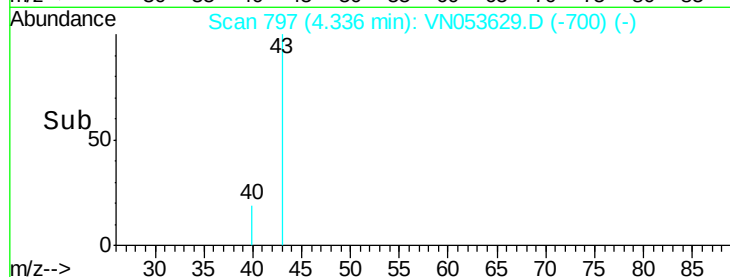
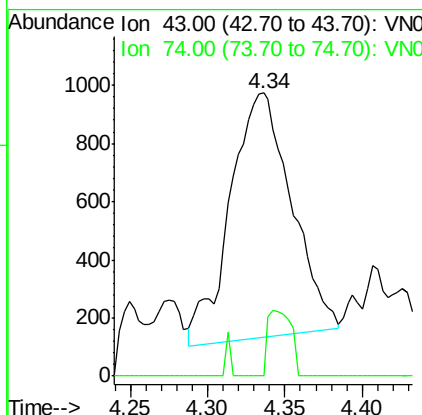
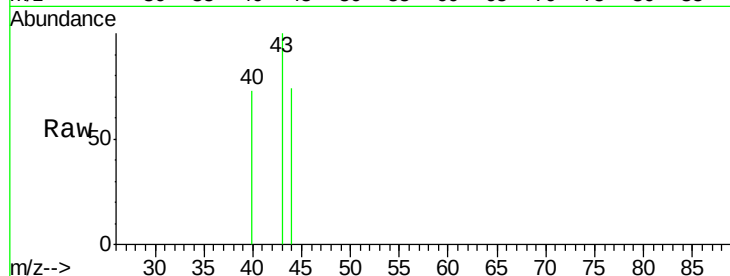




#18
Methyl Acetate
Concen: 0.393 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

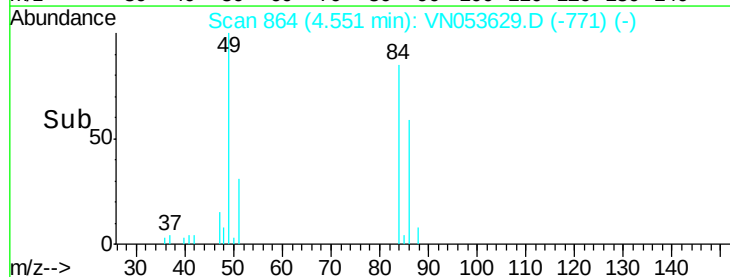
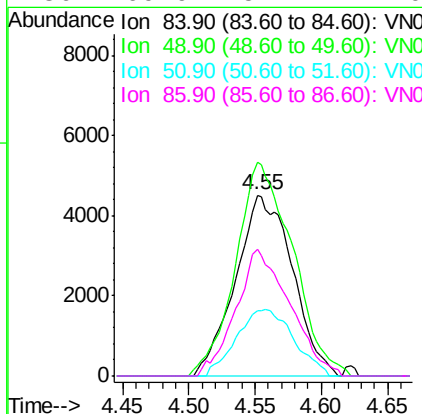
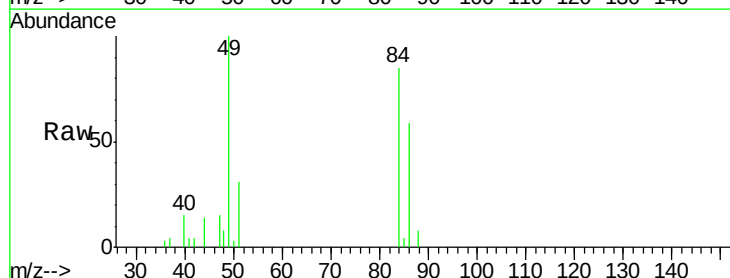
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#02

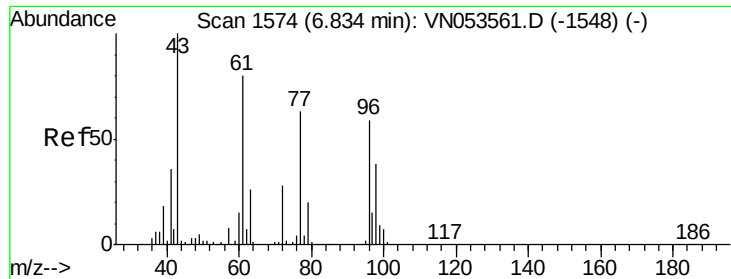
Tot Ion: 43 Resp: 2330
Ion Ratio Lower Upper
43 100
74 10.2 19.4 29.2#



#20
Methylene Chloride
Concen: 1.597 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

Tgt Ion: 84 Resp: 13424
Ion Ratio Lower Upper
84 100
49 118.3 94.3 141.5
51 36.2 29.4 44.2
86 69.9 51.4 77.0

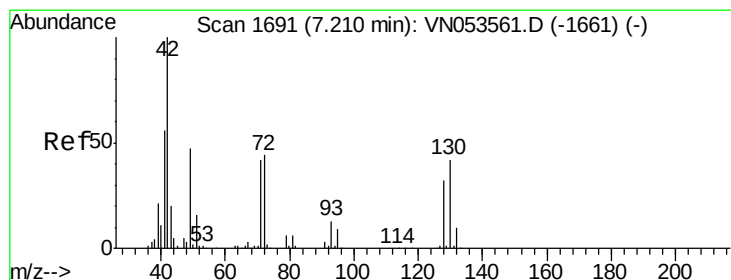
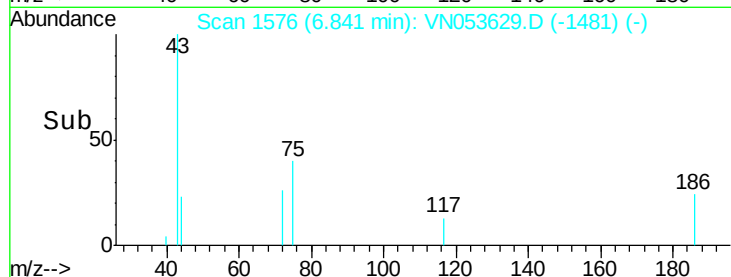
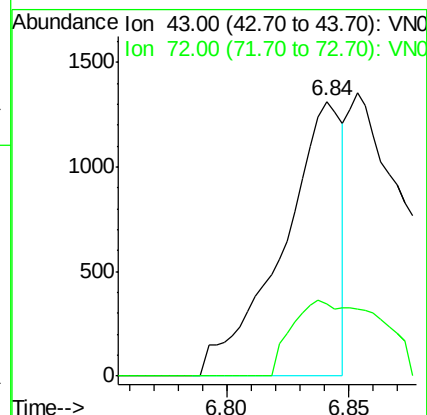
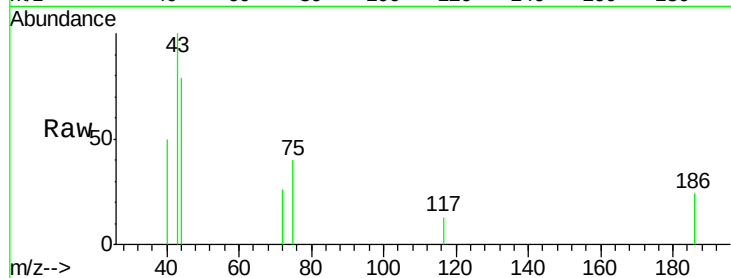




#25
2-Butanone
Concen: 0.781 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

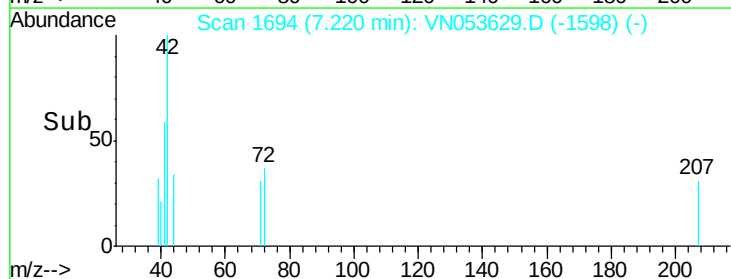
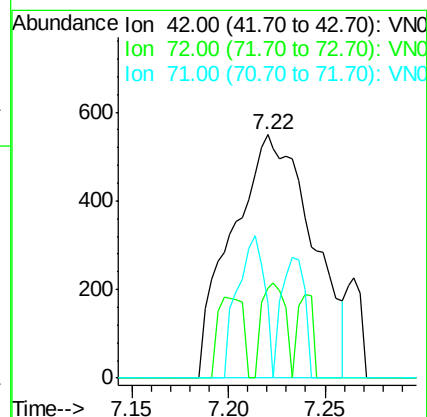
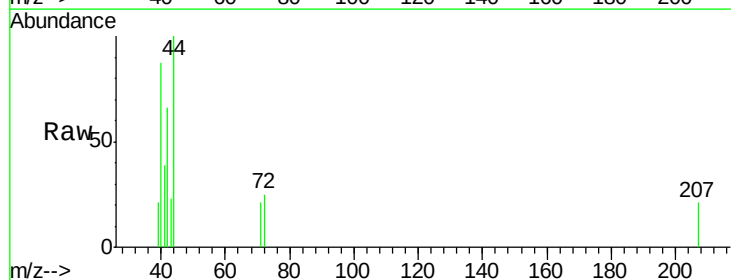
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#02

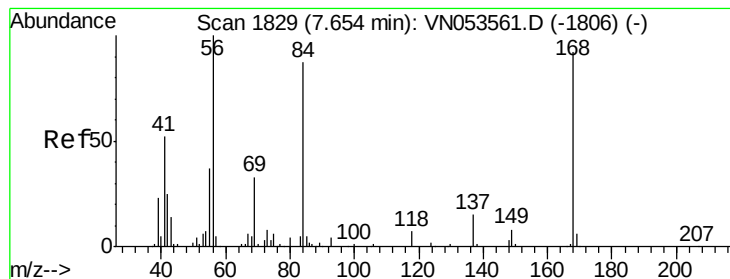
Tot Ion: 43 Resp: 2231
Ion Ratio Lower Upper
43 100
72 26.2 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.859 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

Tgt Ion: 42 Resp: 1577
Ion Ratio Lower Upper
42 100
72 11.6 35.2 52.8#
71 19.8 33.0 49.4#





#31

Cyclohexane

Concen: 0.709 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053629.D

Acq: 6 Feb 2019 12:42

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#02

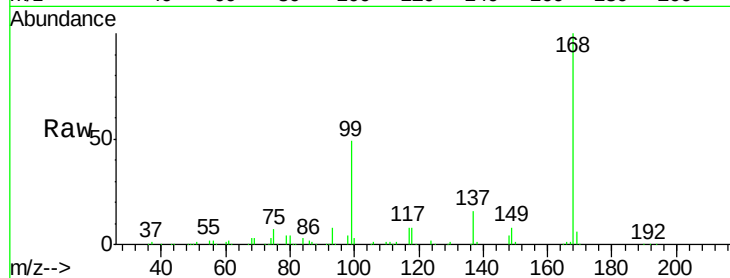
Tot Ion: 56 Resp: 11578

Ion Ratio Lower Upper

56 100

69 174.4 26.4 39.6#

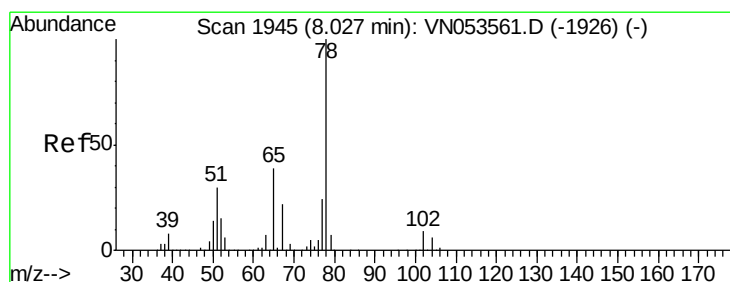
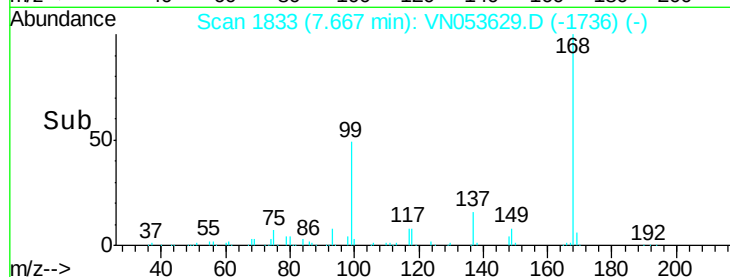
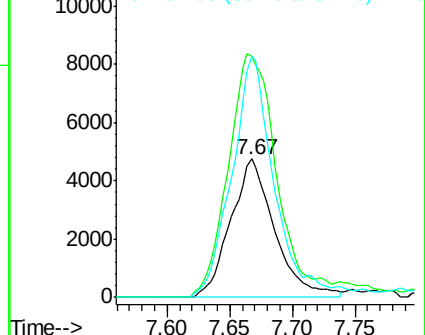
84 174.1 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053629.D

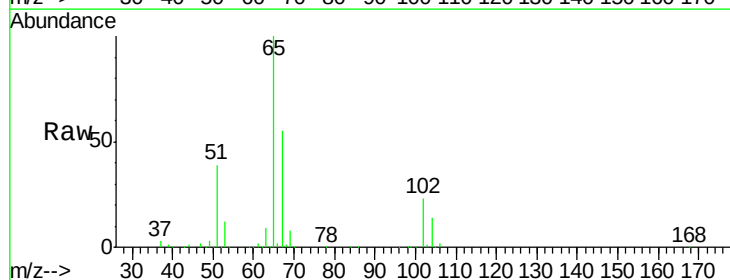
Acq: 6 Feb 2019 12:42

Tgt Ion: 65 Resp: 398111

Ion Ratio Lower Upper

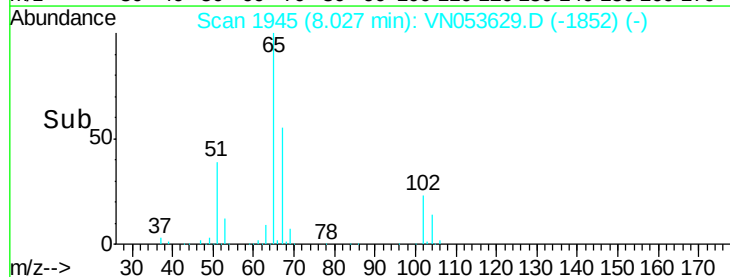
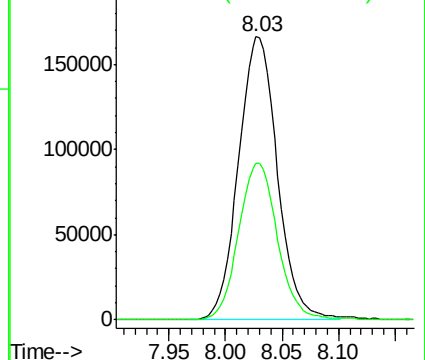
65 100

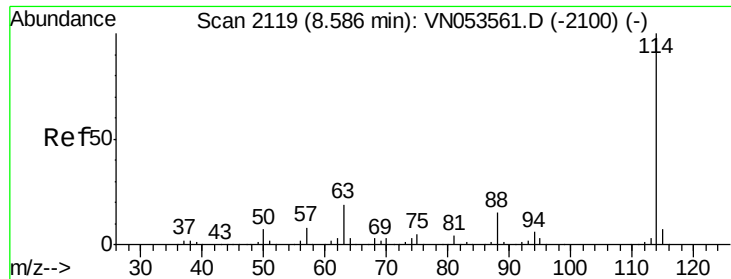
67 55.8 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

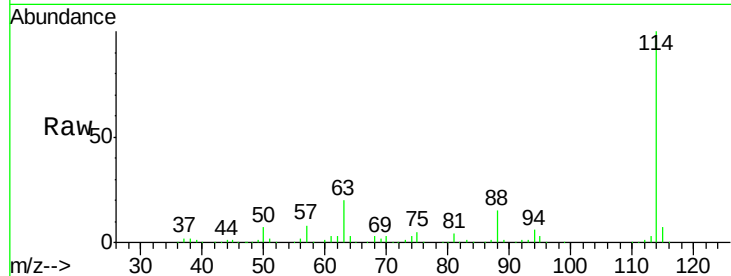




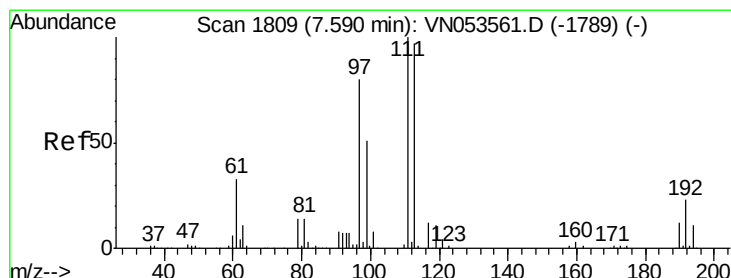
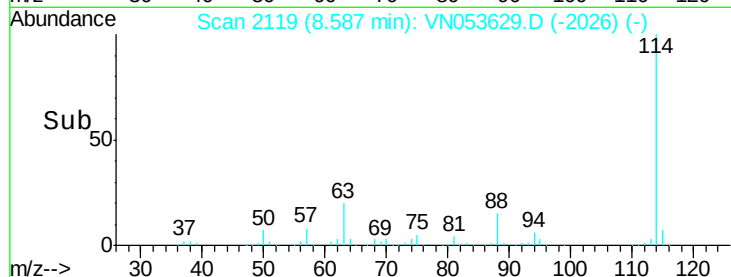
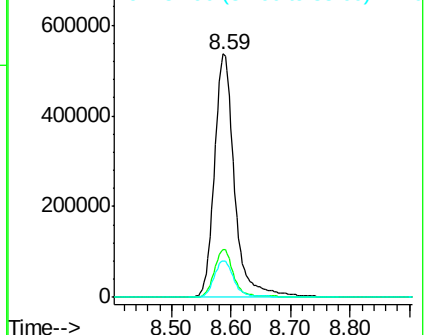
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#02

Tot Ion:114 Resp: 1256614
Ion Ratio Lower Upper
114 100
63 19.8 0.0 38.6
88 15.0 0.0 30.4

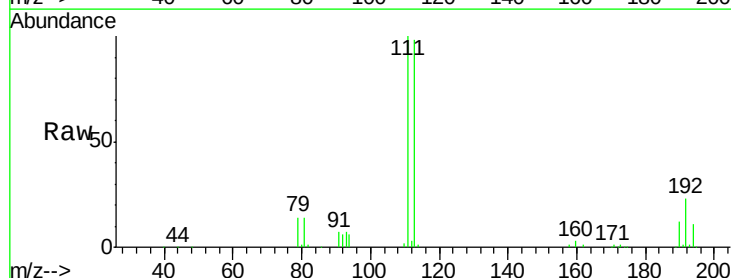


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

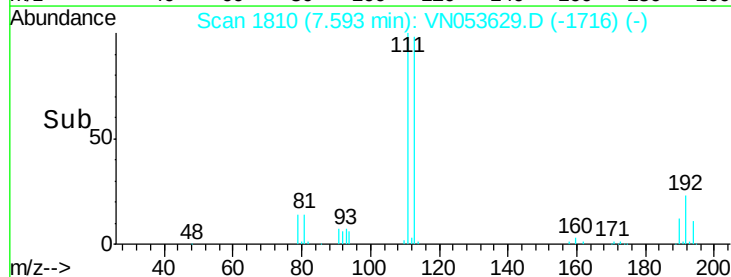
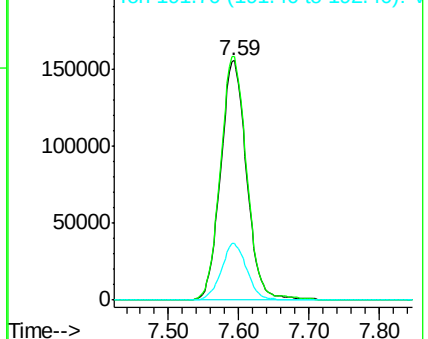


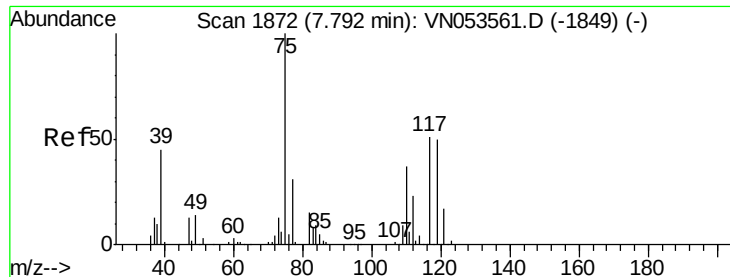
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

Tgt Ion:113 Resp: 399898
Ion Ratio Lower Upper
113 100
111 102.7 81.1 121.7
192 23.2 18.2 27.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.091 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053629.D

Acq: 6 Feb 2019 12:42

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#02

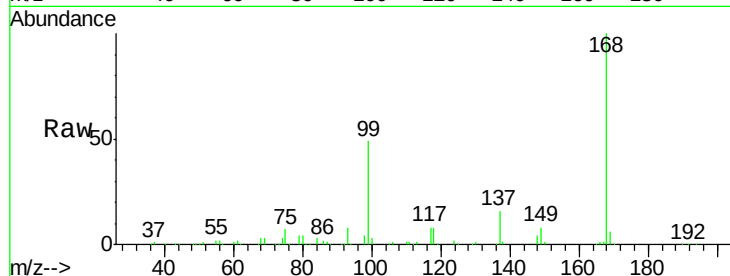
Tot Ion: 75 Resp: 46340

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.3#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053561.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053561.D (-1849) (-)

Time-->

7.55 7.60 7.65 7.70 7.75

7.67

20000

15000

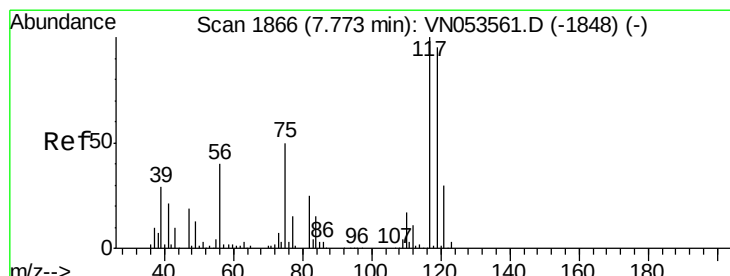
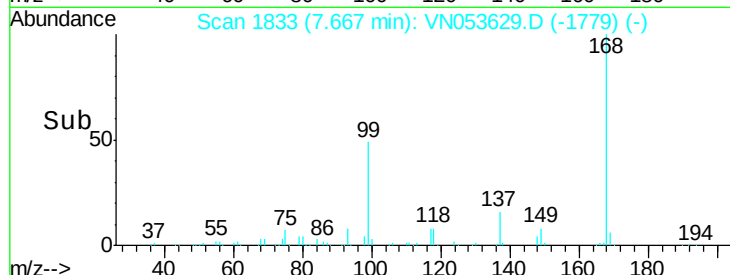
10000

5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 5.300 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053629.D

Acq: 6 Feb 2019 12:42

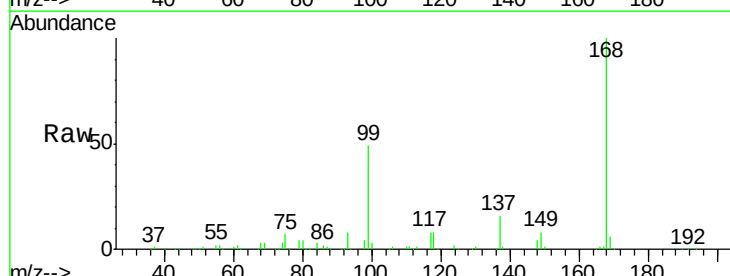
Tgt Ion: 117 Resp: 60475

Ion Ratio Lower Upper

117 100

119 5.1 77.2 115.8#

121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): VN053561.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN053561.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN053561.D (-1848) (-)

Time-->

7.60 7.65 7.70 7.75

7.67

30000

25000

20000

15000

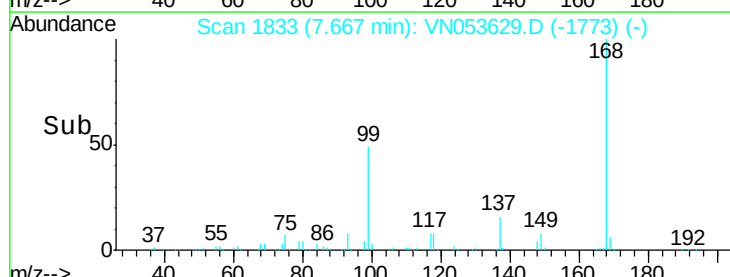
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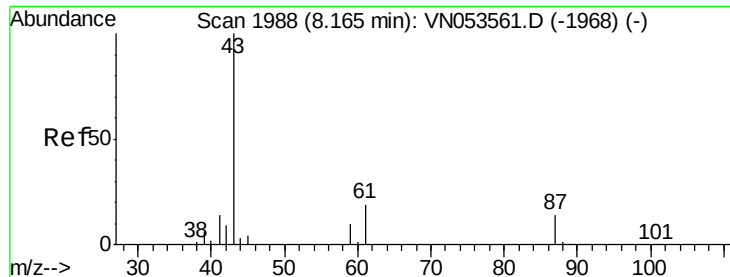
5000

0

7.60 7.65 7.70 7.75

Time-->





#43

Isopropyl Acetate

Concen: 2.774 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN053629.D

Acq: 6 Feb 2019 12:42

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#02

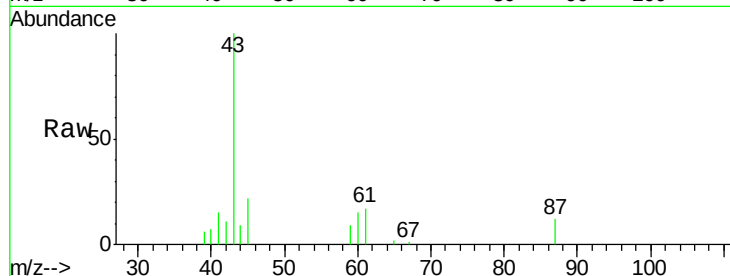
Tot Ion: 43 Resp: 33888

Ion Ratio Lower Upper

43 100

61 18.4 23.9 35.9#

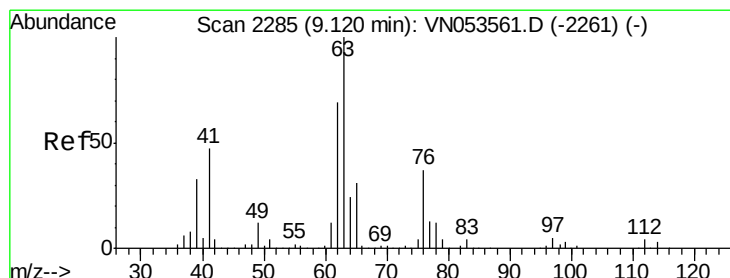
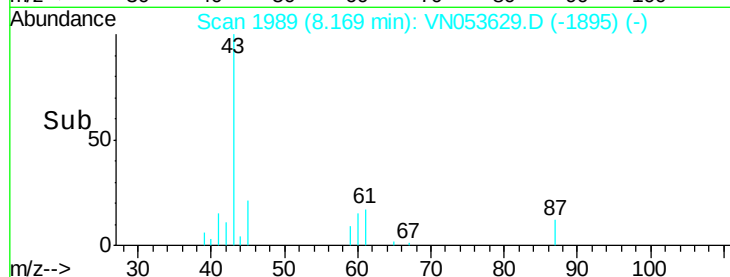
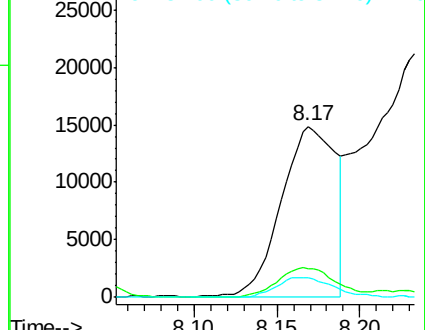
87 11.9 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.261 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053629.D

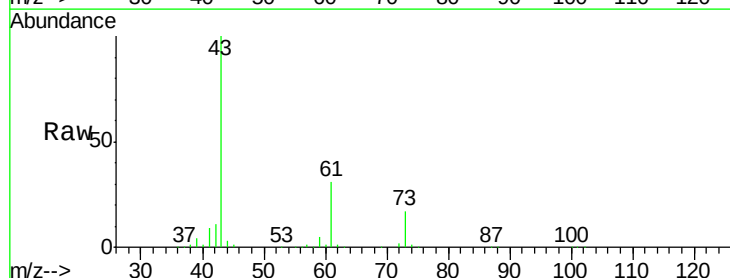
Acq: 6 Feb 2019 12:42

Tgt Ion: 63 Resp: 2330

Ion Ratio Lower Upper

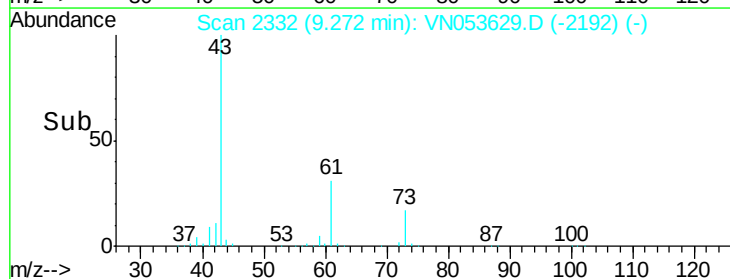
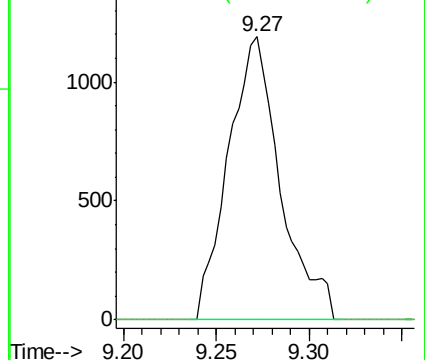
63 100

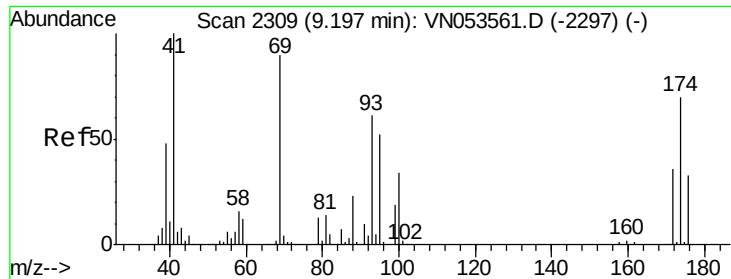
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

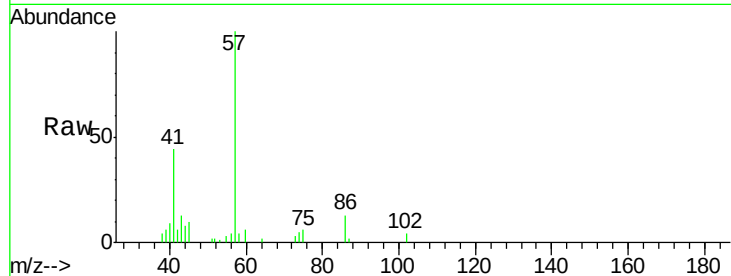




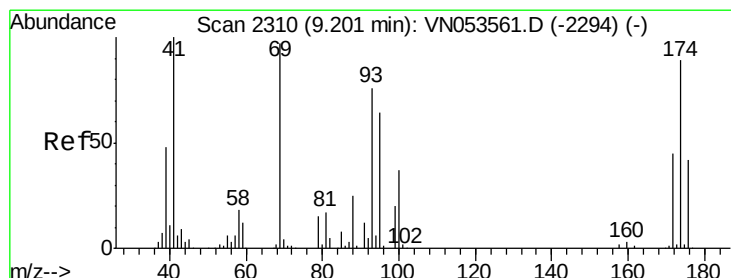
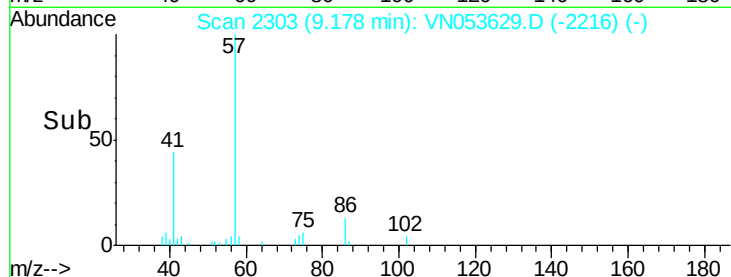
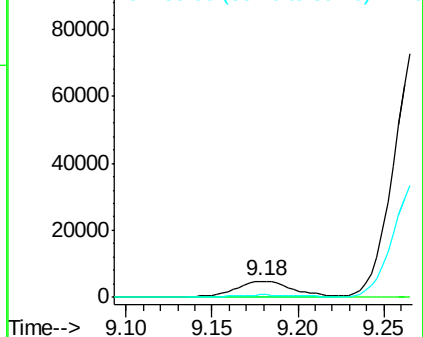
#48
Methvl methacrylate
Concen: 1.690 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#02

Tot Ion: 41 Resp: 9859
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#

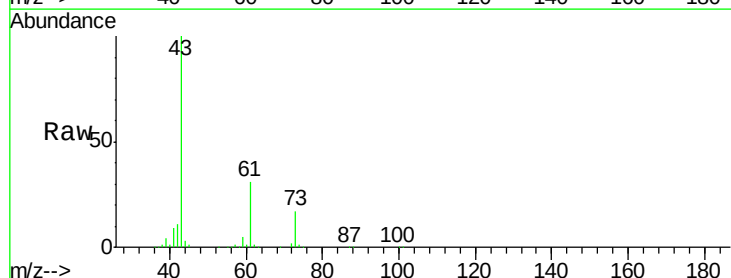


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

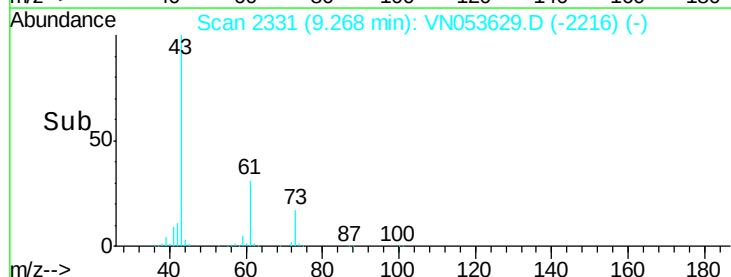
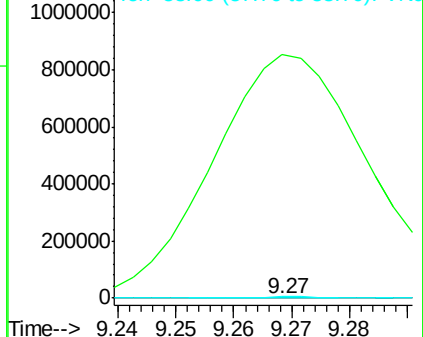


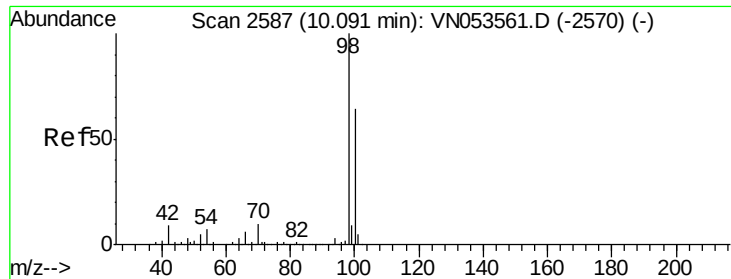
#49
1,4-Dioxane
Concen: 41.315 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

Tgt Ion: 88 Resp: 195
Ion Ratio Lower Upper
88 100
43 903901.5 27.8 41.6#
58 4229.2 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 41.315 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053629.D

Acq: 6 Feb 2019 12:42

Instrument :

MSVOA_N

ClientSampleId :

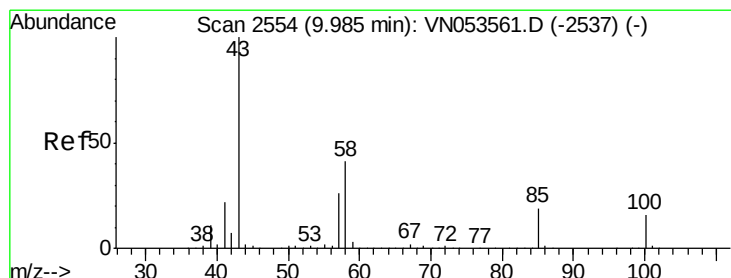
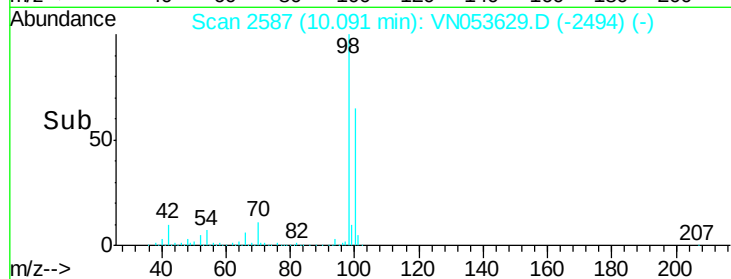
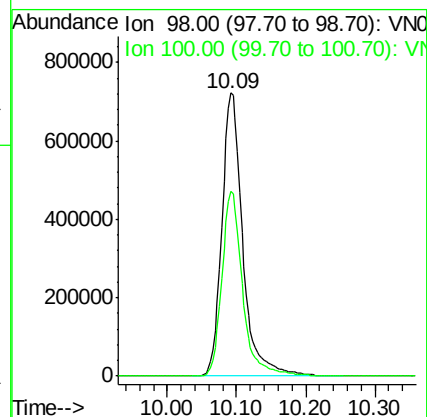
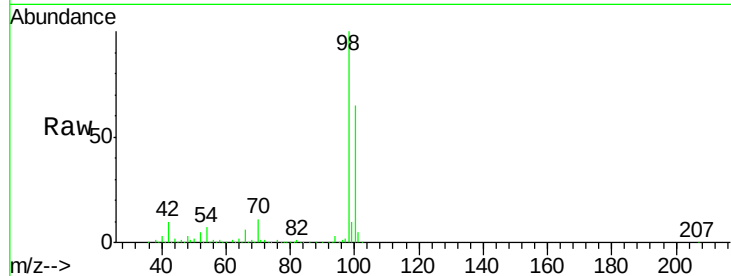
PB116860ZHE#02

Tot Ion: 98 Resp: 1512319

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 1.329 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053629.D

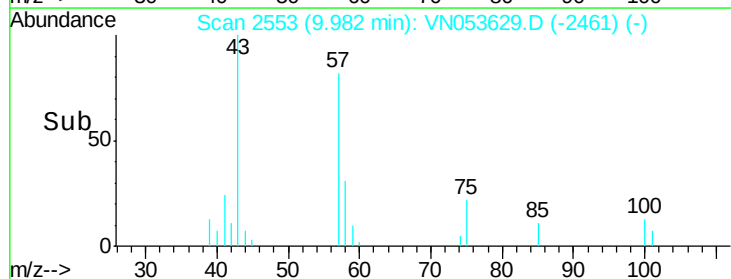
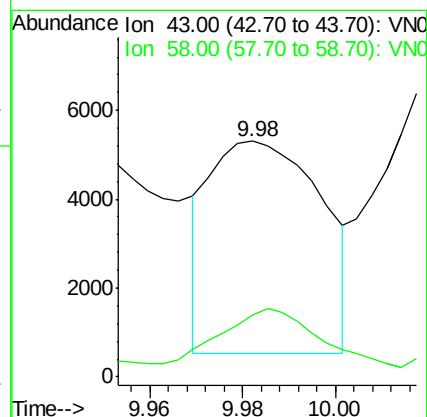
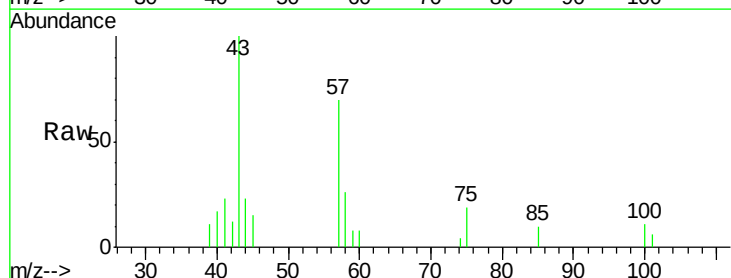
Acq: 6 Feb 2019 12:42

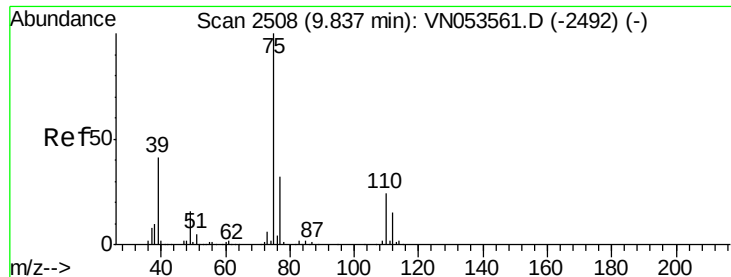
Tgt Ion: 43 Resp: 7977

Ion Ratio Lower Upper

43 100

58 25.2 32.8 49.2#





#54

cis-1,3-Dichloropropene

Concen: 6.346 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053629.D

Acq: 6 Feb 2019 12:42

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#02

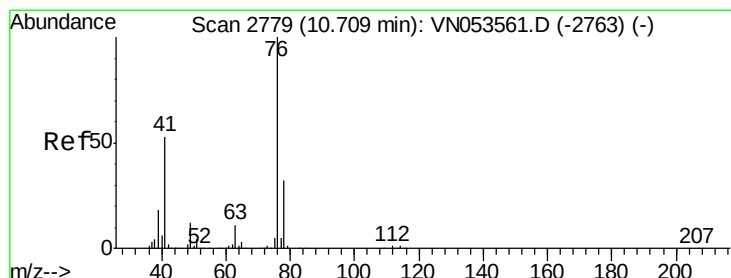
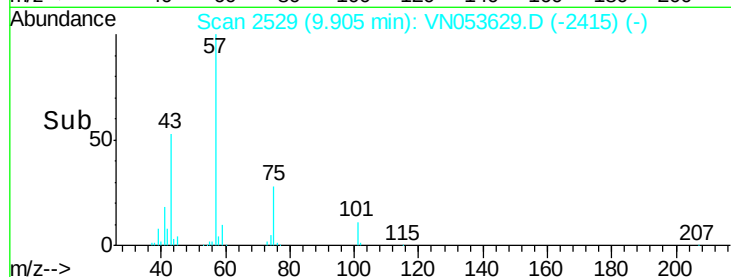
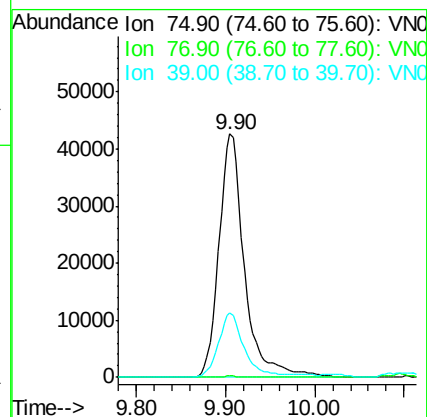
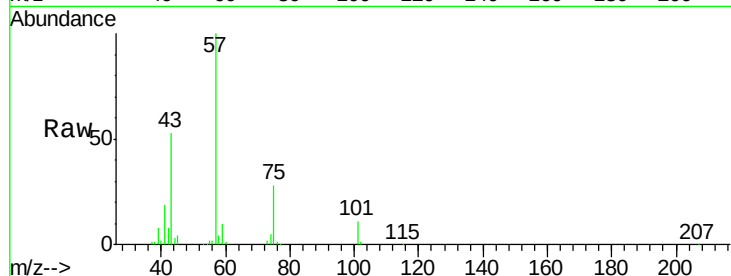
Tot Ion: 75 Resp: 84327

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 26.7 33.4 50.0#



#57

1,3-Dichloropropane

Concen: 1.206 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053629.D

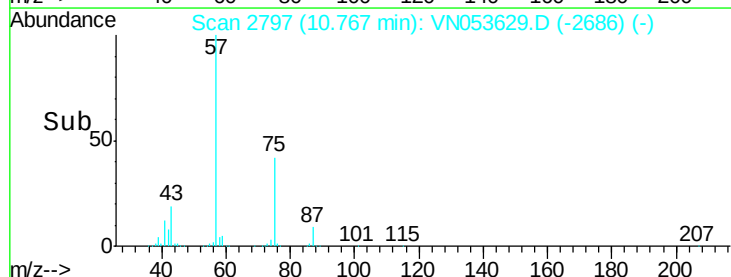
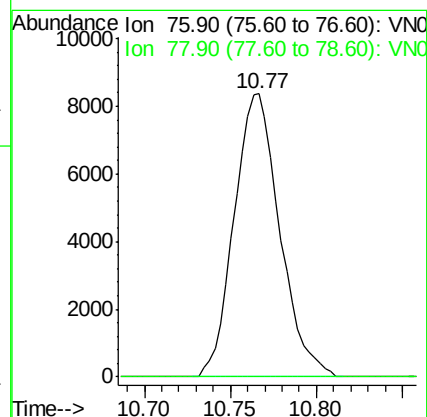
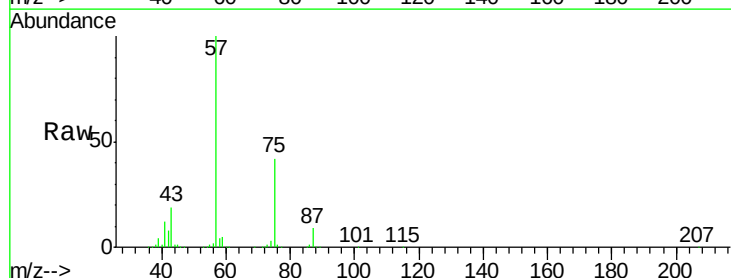
Acq: 6 Feb 2019 12:42

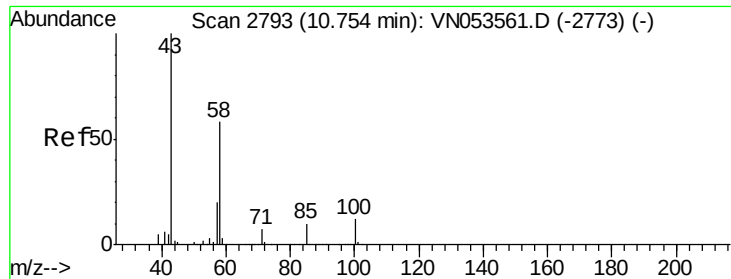
Tgt Ion: 76 Resp: 15392

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#

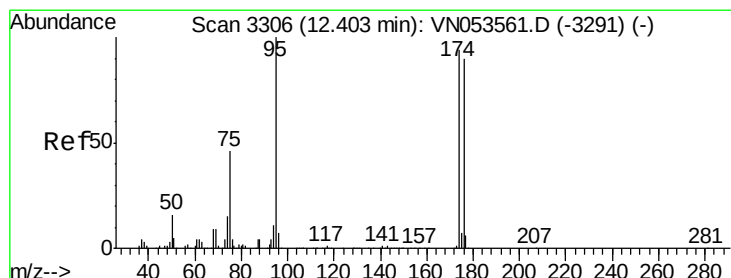
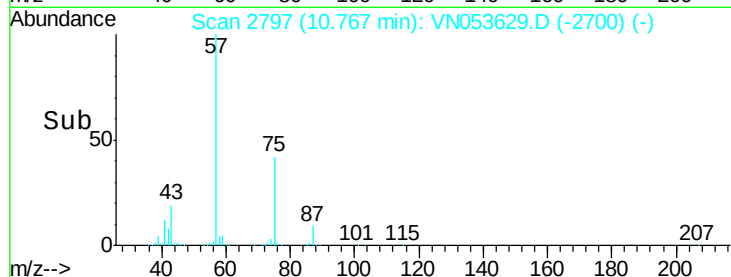
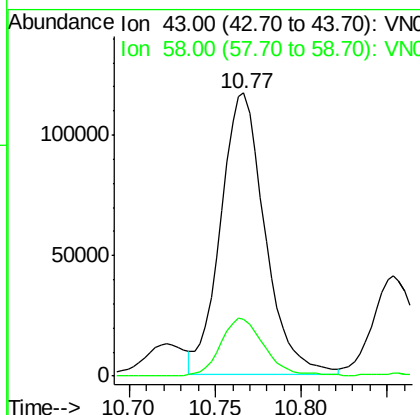
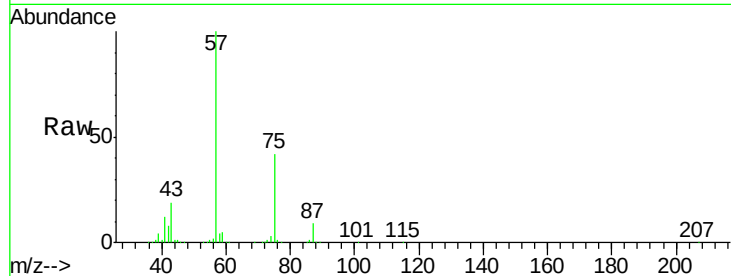




#59
2-Hexanone
Concen: 51.628 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

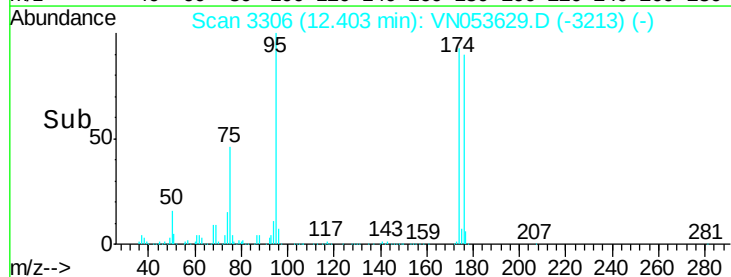
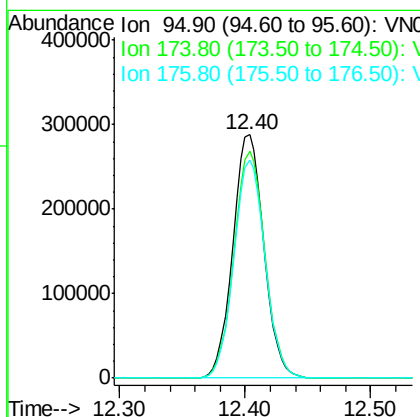
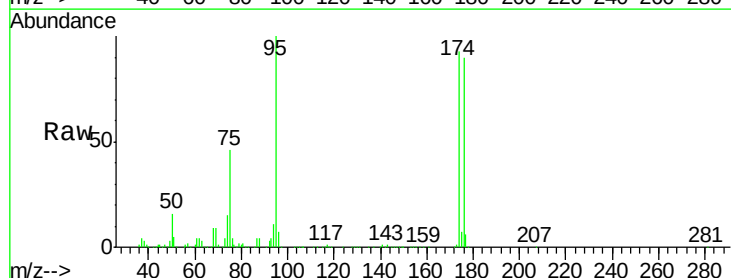
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#02

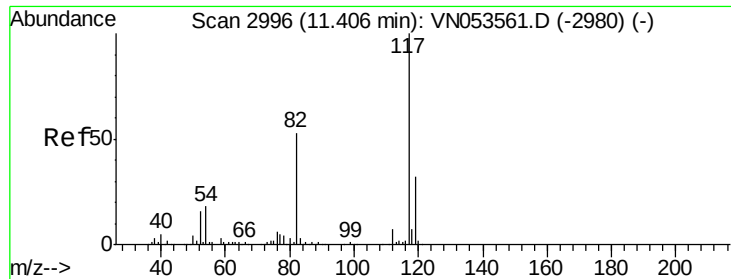
Tot Ion: 43 Resp: 210430
Ion Ratio Lower Upper
43 100
58 20.5 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

Tgt Ion: 95 Resp: 494079
Ion Ratio Lower Upper
95 100
174 93.5 0.0 183.2
176 90.3 0.0 177.4

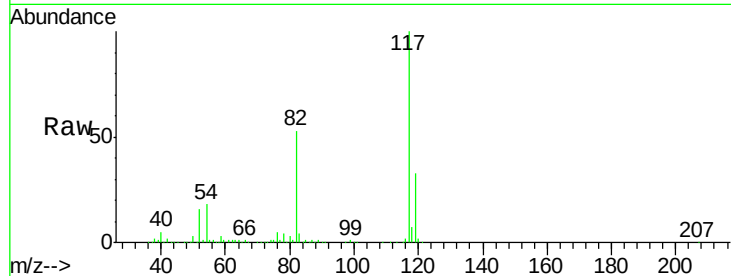




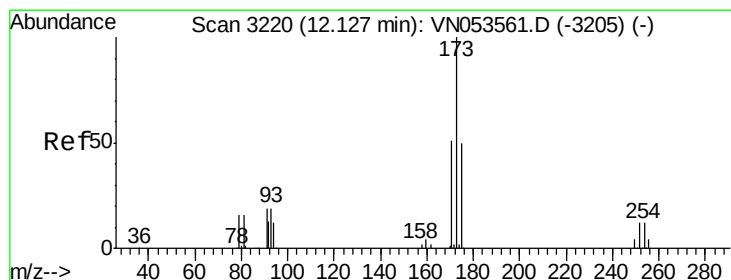
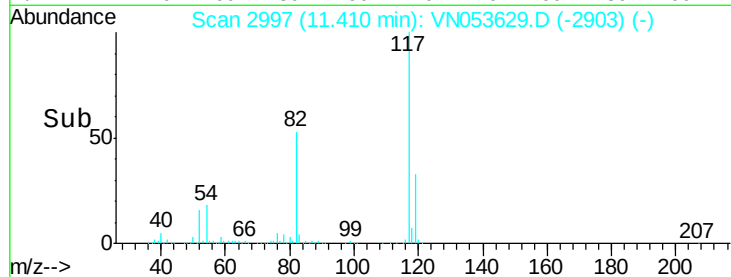
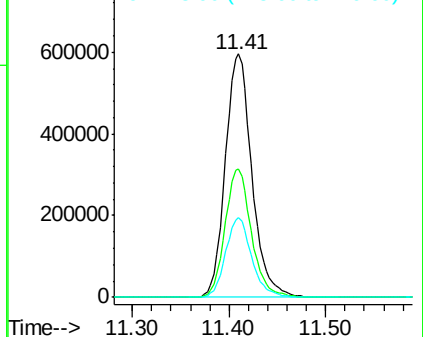
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#02

Tot Ion:117 Resp: 1134311
Ion Ratio Lower Upper
117 100
82 52.9 42.9 64.3
119 32.6 26.0 39.0

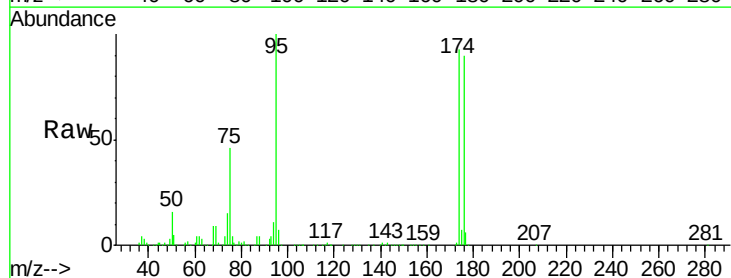


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

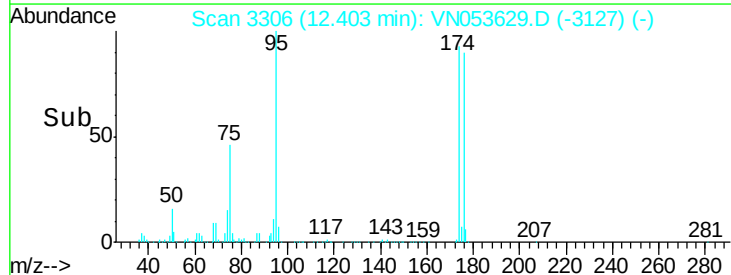
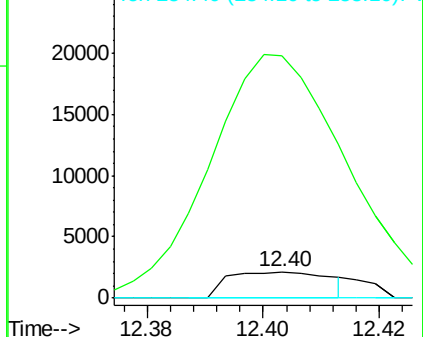


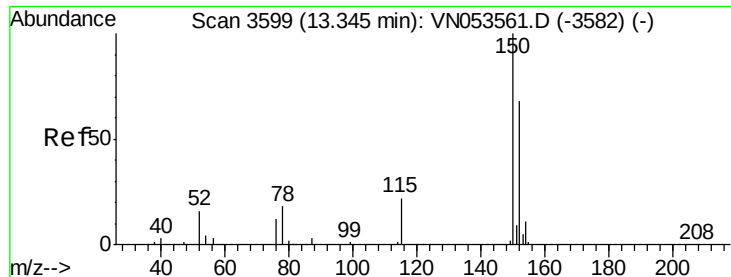
#71
Bromoform
Concen: 0.453 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053629.D
Acq: 6 Feb 2019 12:42

Tgt Ion:173 Resp: 2612
Ion Ratio Lower Upper
173 100
175 1067.8 24.6 74.0#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

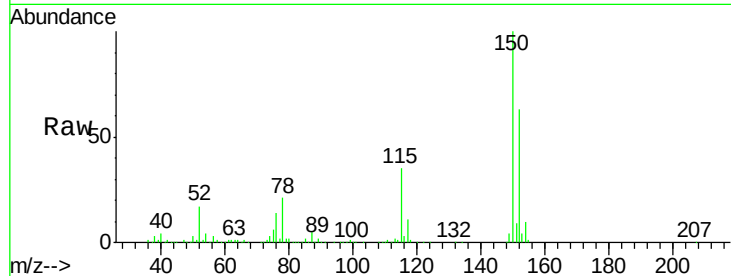




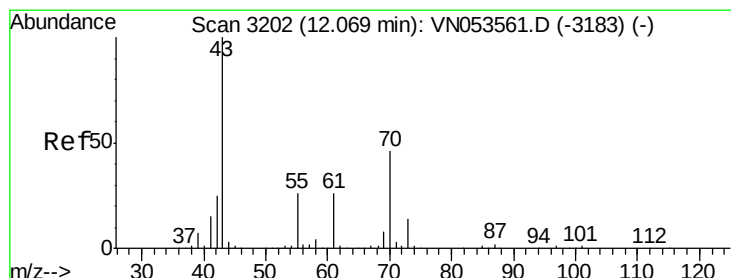
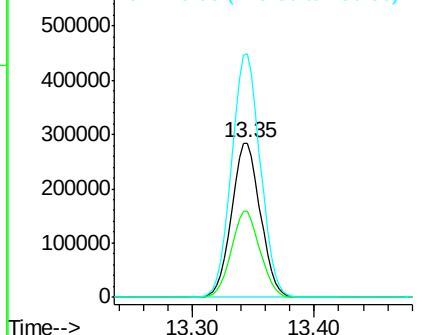
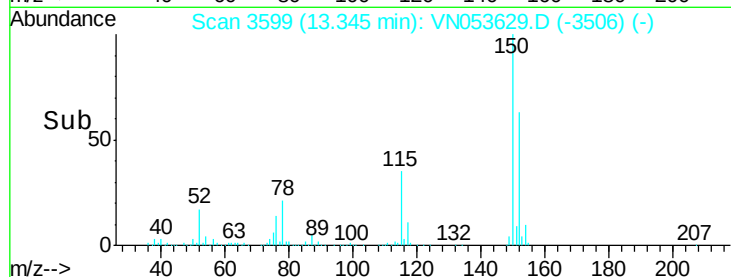
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3599
 Delta R.T. 0.00 min
 Lab File: VN053629.D
 Acq: 6 Feb 2019 12:42

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#02

Tot Ion:152 Resp: 465462
 Ion Ratio Lower Upper
 152 100
 115 55.9 27.8 83.4
 150 157.8 0.0 349.0

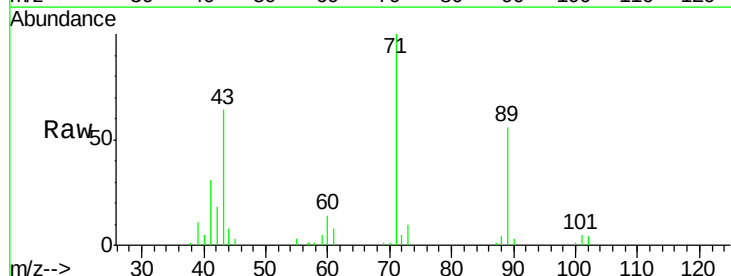


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

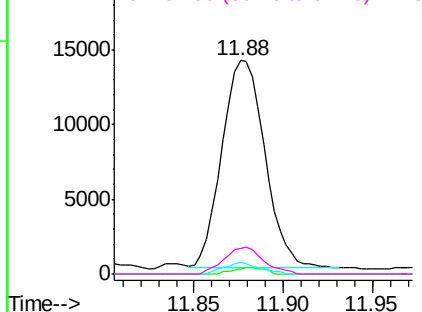
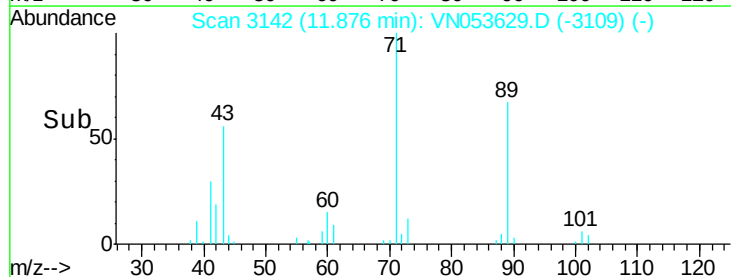


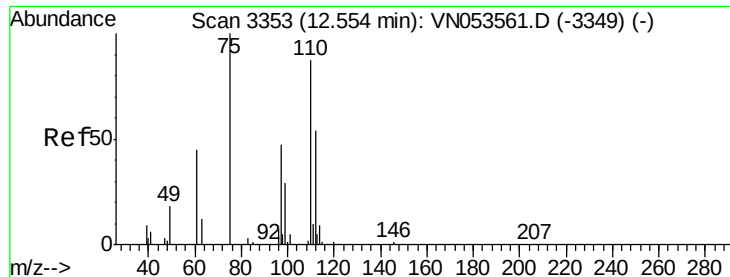
#74
 N-ethyl acetate
 Concen: 2.958 ug/l
 RT: 11.88 min Scan# 3142
 Delta R.T. -0.19 min
 Lab File: VN053629.D
 Acq: 6 Feb 2019 12:42

Tgt Ion: 43 Resp: 23273
 Ion Ratio Lower Upper
 43 100
 70 2.2 35.4 53.2#
 55 4.6 20.9 31.3#
 61 11.8 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): V
 Ion 70.00 (69.70 to 70.70): V
 Ion 55.00 (54.70 to 55.70): V
 Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 38.039 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053629.D

Acq: 6 Feb 2019 12:42

Instrument :

MSVOA_N

ClientSampleId :

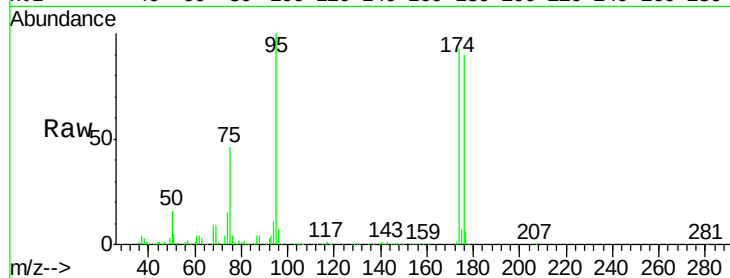
PB116860ZHE#02

Tot Ion: 75 Resp: 227421

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

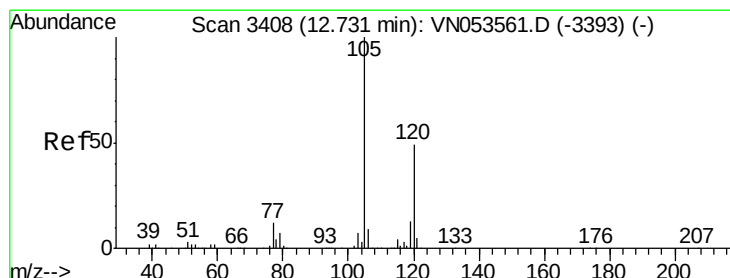
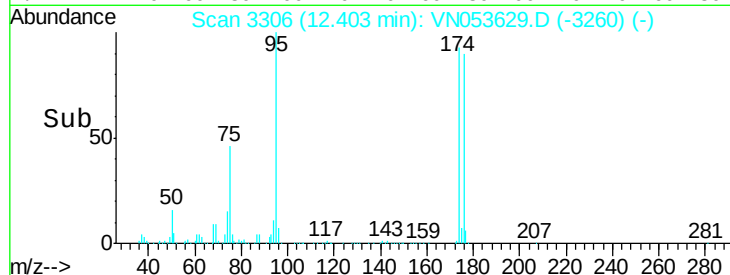
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.315 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053629.D

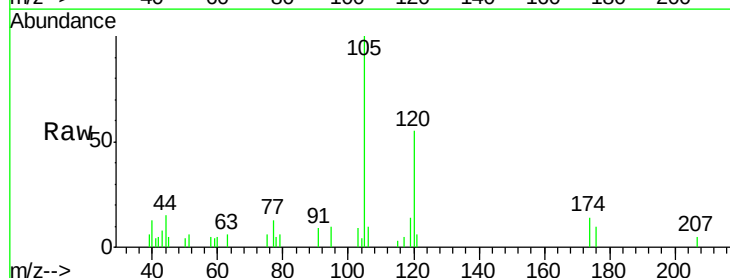
Acq: 6 Feb 2019 12:42

Tgt Ion: 105 Resp: 8548

Ion Ratio Lower Upper

105 100

120 53.5 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

6000

5000

4000

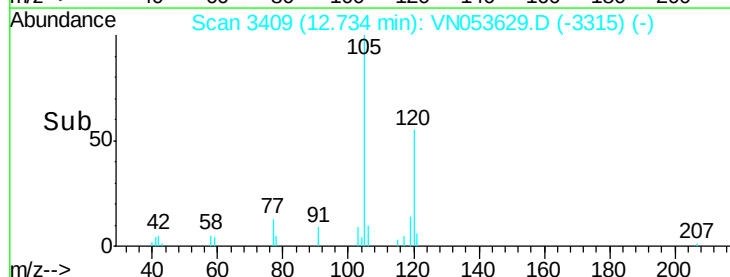
3000

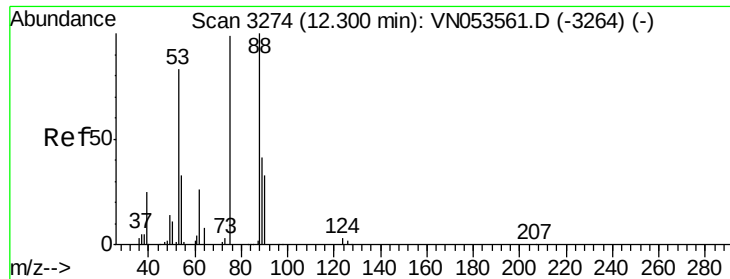
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 106.964 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053629.D

Acq: 6 Feb 2019 12:42

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#02

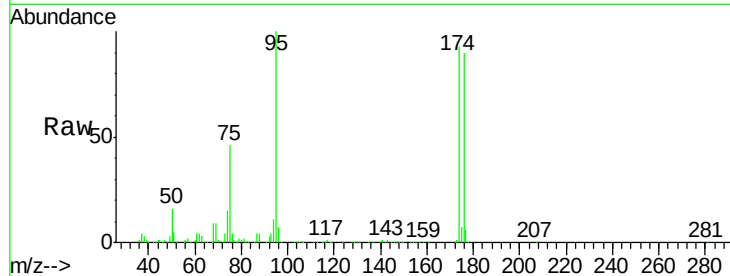
Tot Ion: 75 Resp: 227421

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

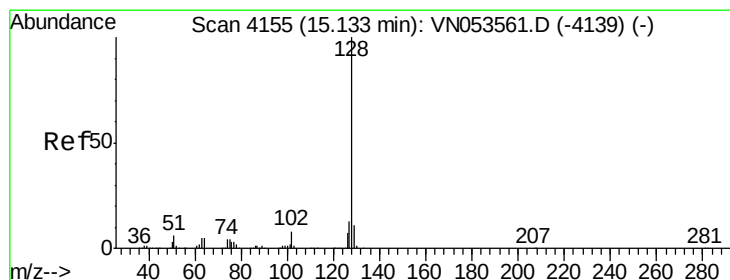
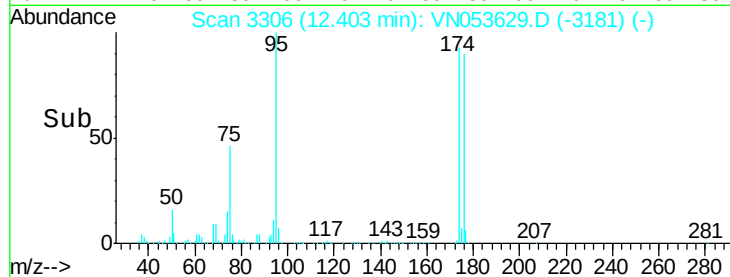
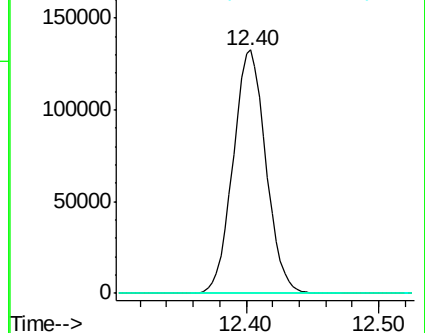
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053629.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053629.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053629.D (-3181) (-)



#95

Naphthalene

Concen: 1.773 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN053629.D

Acq: 6 Feb 2019 12:42

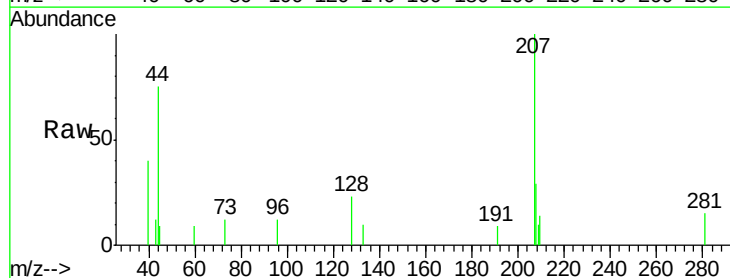
Tgt Ion: 128 Resp: 786

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN053629.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN053629.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN053629.D (-4061) (-)

